KENWOOD

Listen to the Future

ADVANCED WIRELESS COMMUNICATIONS

TK-2170/3170

Compact VHF/UHF FM Portable Radios

FleetSync® by KENWOOD

GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 4 W (450-490, 400-430 MHz) Models
- Conventional Zones
- 12B Channels / 12B Zones[1]
- Single Priority Scan
- Single & Multi-Zone Scan
- List Scan
- B Character Alphanumeric Aliases
- Backlit LCD
- Function / Status LCD Icons
- Transmit / Busy / Call Alert / Warn LED
- 4 Front Panel PF keys
- 3 Side PF Keys
- Orange Emergency / AUX Key
- 12-Key DTMF / PF Keypad Models[2]
- 500 mW Audio Power
- Enhanced Kenwood Audio
- Companded Audio
- VOX Ready
- Voice Inversion Scrambler Built-in
- Encryption / ANI Board Control
- Easy Option Port (20-Pin)
- Emergency Call Features
- Emergency Man-Down Option
- QT / DQT
- Two-Tone Decode[3]
- Single / Two-Tone Encode[3]
- Operator Selectable Tone[3]
- DTMF Encode / Decode[4]
- Special Alert Tone Pattern[5]
- Call Key[6]
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- Speaker Mic Options
- Windows® Programming & Tuning[7]
- Windows® Firmware Uploading[7]
- Field Programming & Tuning
- Cloning
- MIL-STD-B10 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Intrinsically Safe Option

FleetSync®

- PTT ID Digital ANI
- Selective Call & Group Call[8]
- Status Messaging[8]
- Emergency Status
- Caller ID Display[8]
- Short Text Messages[8]
- PC Serial Interface

Keypad model also available.

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Options

- **KNB-2SA** Ni-Cd Battery Pack (1,200mAh)
- **KNB-26N** Ni-MH Battery Pack (2,000mAh)
- **KNB-3SL** Li-Ion Battery Pack (7.4V/1950mAh)
- **KNB-40LC** Li-Ion Battery Pack (7.4V/1950mAh) I.S.
- **KBP-S** Battery Case

- **KSC-25** Rapid Charger
- **KSC-30** Charger for KNB-25A and KNB-26N

- **KRA-22** VHF Low Profile Helical Antenna
- **KRA-23** UHF Low Profile Helical Antenna
- **KRA-26** VHF Helical Antenna
- **KRA-27** UHF Whip Antenna
- **KMC-17** Speaker Microphone

- **KMC-21** Speaker Microphone
- **KEP-2** Earphone Cord Kit for KMC-17
- **KHS-1** Head Set with VOX/PTT
- **KHS-22** Head Set
- **KVC-3** Regular Rate Vehicular Charger Adapter (for KSC-30)
- **KVC-4** Rapid Rate Vehicular Charger Adapter (for KSC-25)

- **KHS-7A** Lightweight Single Muff Headset
- **KHS-BBL** 2-wire Palm Mic with Earphone (Black)
- **KHS-9BL** 3-wire Lapel Mic with Earphone (Black)
- **KLH-138** Leather Case w/Swivel Belt Loop
- **KLH-139** - for DTMF Model Leather Case w/Swivel Belt Loop
- **KBH-12** Belt Clip

Specifications

All accessories and options may not be available in all markets.
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Model	TK-2170	TK-3170
GENERAL		
Frequency Range		
Type 1	136-174 MHz	450-490 MHz
Type 3	—	400-430 MHz
Number of Channels		
Zone	Max. 128 per Radio	
Conv. Ch	Max. 128 per Zone	
Channel Spacing		
Wide/Narrow	25, 30 kHz/12.5,15 kHz	25 kHz/12.5 kHz
Battery Voltage	7.5V DC±20%	
Battery Life (5-5-90 duty cycle, during hi-power, battery saver off)		
with KNB-25A (1200mAh)	Approx. 8 hours	
with KNB-26N (2000mAh)	Approx. 12 hours	
with KNB-35L (1950mAh)	Approx. 11 hours	
Operating Temperature Range*	-22°F ~ +140°F (-30°C ~ +60°C)	
Frequency Stability	±2.5ppm (-22°F ~ +140°F)	
Antenna Impedance	50 Ω	
Channel Frequency Spread		
Type 1	38 MHz	40 MHz
Type 3	—	30 MHz
Dimensions (W x H x D), Projections not included		
Radio Only	2-7/32 x 4-5/16 x 5/8 in. (56 x 109 x 16.6 mm)	
with KNB-35L	2-7/32 x 4-5/16 x 1-1/4 in. (56 x 109 x 31.7 mm)	
with KNB-25A/26N	2-7/32 x 4-5/16 x 1-1/2 in. (56 x 109 x 37.9 mm)	
Weight (net)		
Radio Only	7.2 oz. (205 g) (includes supplied accessories)	
with KNB-25A	14.6 oz. (415 g) [with antenna (KRA-22/23) and belt clip (KBH-12)]	
with KNB-26N	16.0 oz. (455 g) [with antenna (KRA-22/23) and belt clip (KBH-12)]	
with KNB-35L	12.0 oz. (340 g) [with antenna (KRA-22/23) and belt clip (KBH-12)]	
FCC ID		
Type 1	ALH34703110	ALH34713110
Type 3	—	ALH34713130
IC Certification		
Type 1	282D-34703110	282D-34713110
Type 3	—	282D-34713130

**+14°F ~ +140°F (-10°C ~ +60°C) when KNB-26N/35L in use*

Model	TK-2170	TK-3170
RECEIVER (Measurements made per TIA/EIA-603)		
Sensitivity (12dB SINAD)		
Wide	0.25 µV	
Narrow	0.28 µV	
Selectivity		
Wide	70 dB	
Narrow	65 dB	
Intermodulation Distortion		
Wide	65 dB	
Narrow	60 dB	
Spurious Response	65 dB	
Audio Output (4 Ω Impedance)	500 mW with less than 5% distortion	
TRANSMITTER (Measurements made per TIA/EIA-603)		
RF Output Power		
High	5 W	4 W
Low	1 W	1 W
Spurious Response	70 dB	
Type of Emission		
Wide	16KØF3E	
Narrow	11KØF3E	
FM HUM & Noise		
Wide	45 dB	
Narrow	43 dB	
Audio Distortion	Less than 5%	

Kenwood follows a policy of continuous advancement in development.
For this reason specifications may be changed without notice.
FleetSync® is a registered trademark of Kenwood Corporation in the United States and/or other countries.
All other trademarks are property of their respective owners.

Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV
International Protection Standard				
Dust & Water Protection	IP54/55			

**To meet MIL 810 and IP grade, the 2-pin connector cover has to be connected.*

Footnotes from front:

1. *Conventional Zones: 128 Channels /128 Zones max. per radio; 128 CH max. per Zone.*
2. *Keypad models only.*
3. *Two-Tone Decode (3 sets x 2 pairs each); Single / Two-Tone Encode (10 tones), Operator Selectable Tone (49 QT,DQT code pairs).*
4. *DTMF Encode: PTT ID, Emergency ANI, Auto-Dial (16 numbers); Manual Encode (keypad models),DTMF Decode: Code Squelch (3-10 digit), Selective Call (9-digit with status) Group Codes A,B, C, D & Wild Card characters) and radio Stun.*
5. *Special Alert Tone Patterns operate for 2-Tone, DTMF, FleetSync® selective call decode.*
6. *Call Key 1 & 2: operates for 2-Tone, DTMF and FleetSync® status encode.*
7. *KPG-101D required: Windows®98/ NT/ 2000/ Me/XP compatible; English/Spanish screen languages.*
8. *ID List capacity is 100 ID's; Short Text Messages are radio stored & LCD displayed; Status Message List capacity is 50.*

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20809 Kensington Blvd Lakeville,MN 55044 877-202-5060 www.advancedwireless.com
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